

Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$144,281
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$177,765
C. Fringe Benefits	\$43,828
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$221,593
D. Equipment	\$0
E. Travel	
Domestic	\$6,855
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0

Publication Costs	\$6,000
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$6,000
H. Total Direct Costs (A Through G)	\$234,448
I. Indirect Costs*	\$161,769
J. Total Direct and Indirect Costs (H + I)	\$396,217
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$396,217
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2211383

Managing Division Abbreviation: CNS

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/30/2022

Amendment Number: 000

Proposal Number: 2211383

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 07/22/2022.

AWARD INFORMATION

Award Number (FAIN): 2211383

Award Instrument: Standard Grant

Award Date: 08/30/2022

Award Period of Performance: Start Date: 10/01/2022 End Date: 09/30/2026

Project Title: Collaborative Research: CNS Core: Medium: A Stateful Switch Architecture for In-Network Compute

Managing Division Abbreviation: CNS

Research and Development Award: Yes

Funding Opportunity: NSF 21-616 Computer and Information Science and Engineering (CISE): Core Programs

Assistance Listing Number(s) and Name(s): 47.070 Computer and Information Science and Engineering

FUNDING INFORMATION

Amount Obligated by this Amendment: \$240,000
Total Intended Award Amount: \$240,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$240,000
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED] **Email:** [REDACTED] **Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2211381	Y	[REDACTED]	Purdue University
2211382	N	[REDACTED]	Massachusetts Institute of Technology
2211383	N	[REDACTED]	Harvard College, President & Fellows of Harvard University
2211384	N	[REDACTED]	Stanford University

NSF CONTACT INFORMATION

Managing Grants

Official (Primary

Contact)

Name: Irene C.

Sattler

Email:

isattler@nsf.gov

Awarding Official

Name: Irene C. Sattler

Email: isattler@nsf.gov

Managing Program Officer

Name: Ann Christine Von Lehmen

Email: avonlehm@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and

NSF Agency Specific Requirements, dated 05/13/2022, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 21-616 Computer and Information Science and Engineering (CISE): Core Programs.

BUDGET

A. Senior Personnel	
Senior Personnel Count	4.00
Senior Personnel Calendar Months	0.80
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$21,080
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	4.00
Graduate Students Amount	\$94,568
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0

Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$115,648
C. Fringe Benefits	\$4,658
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$120,306
D. Equipment	\$0
E. Travel	
Domestic	\$3,750
International	\$2,000
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$4,250
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$19,789
<i>Total Other Direct Costs (G)</i>	\$24,039
H. Total Direct Costs (A Through G)	\$150,095
I. Indirect Costs*	\$89,905
J. Total Direct and Indirect Costs (H + I)	\$240,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$240,000
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2216066

Managing Division Abbreviation: CHE

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/12/2022

Amendment Number: 000

Proposal Number: 2216066

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 06/21/2022.

The grantee may allow access to the instrumentation to non-Federal outside organizations for a fee, if excess time is available on the equipment. However, the grantee shall not use this equipment to provide services to such organizations for a fee that is less than private companies charge for equivalent services. In addition, the users as outlined in the proposal must have the highest priority when allocating instrument access time.

As a condition of this award, the grantee agrees to provide cost sharing as specified in the referenced proposal, as amended, in the amount of \$128,886. 2 CFR 200.306 prescribes the criteria and procedures for the allowability of cash and in-kind contributions. No Federal funds may be used to meet the grantee's cost sharing obligation for this project. The amount of cost sharing must be documented on an annual and final basis, certified by the Authorized Organizational Representative, and reported to the cognizant NSF Program Officer via FastLane. Mandatory cost sharing commitments are subject to audit.

AWARD INFORMATION

Award Number (FAIN): 2216066

Award Instrument: Standard Grant

Award Date: 08/12/2022

Award Period of Performance: Start Date: 08/15/2022 End Date: 07/31/2025
Project Title: MRI: Acquisition of Single-Crystal Diffractometer for Small Molecule Crystallography and Cryosystem
Managing Division Abbreviation: CHE
Research and Development Award: Yes
Funding Opportunity: NSF 18-513 Major Research Instrumentation Program:
Assistance Listing Number(s) and Name(s): 47.049 Mathematical and Physical Sciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$300,735
Total Intended Award Amount: \$300,735
Total Approved Cost Share or Matching Amount: \$128,886
Total Amount Obligated to Date: \$300,735
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator:	Email:	Organization: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
[REDACTED]	[REDACTED]	
co-Principal Investigator:	Email:	Organization: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
[REDACTED]	[REDACTED]	
co-Principal Investigator:	Email:	Organization: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
[REDACTED]	[REDACTED]	
co-Principal Investigator:	Email:	Organization: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
[REDACTED]	[REDACTED]	

NSF CONTACT INFORMATION

Managing Grants Official (Primary Contact)	Awarding Official	Managing Program Officer
Name: Lisa Smith	Name: Jason M. Madigan	Name: Kenneth R. Carter
Email: lismith@nsf.gov	Email: jmadigan@nsf.gov	Email: krcarter@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and

NSF Agency Specific Requirements, dated 05/13/2022, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 18-513 Major Research Instrumentation Program:.

BUDGET

A. Senior Personnel	
Senior Personnel Count	0.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0

Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$0
C. Fringe Benefits	\$0
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$0
D. Equipment	\$300,735
E. Travel	
Domestic	\$0
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
H. Total Direct Costs (A Through G)	\$300,735
I. Indirect Costs*	\$0
J. Total Direct and Indirect Costs (H + I)	\$300,735
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$300,735
M. Cost Sharing Proposed Level	\$128,886

*Indirect Cost Rates

The indirect cost rate(s) for this award is/are not available. These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2217680

Managing Division Abbreviation: CCF

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/25/2022

Amendment Number: 000

Proposal Number: 2217680

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

The project must ensure that one or more of the PIs, Co-PIs, senior personnel, senior graduate students, and/or postdoctoral researchers funded under this grant will attend, and actively participate in, at least one DASS PI meeting to be held during the course of the award.

AWARD INFORMATION

Award Number (FAIN): 2217680

Award Instrument: Standard Grant

Award Date: 08/25/2022

Award Period of Performance: Start Date: 10/01/2022 End Date: 09/30/2025

Project Title: Collaborative Research: DASS: Co-design of law and computer science for privacy in sociotechnical software systems

Managing Division Abbreviation: CCF

Research and Development Award: Yes

Funding Opportunity: NSF 22-512 Designing Accountable Software Systems

Assistance Listing Number(s) and Name(s): 47.070 Computer and Information Science and Engineering, 47.075 Social, Behavioral, and Economic Sciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$249,681
Total Intended Award Amount: \$249,681
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$249,681
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED] **Email:** [REDACTED] **Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2217678	Y	[REDACTED]	Georgetown University
2217679	N	[REDACTED]	Trustees of Boston University
2217680	N	[REDACTED]	Harvard College, President & Fellows of Harvard University

NSF CONTACT INFORMATION**Managing Grants**

Official (Primary Contact)

Name: Daniel P McEnrue

Email: dpmcenru@nsf.gov

Awarding Official

Name: Daniel P McEnrue

Email: dpmcenru@nsf.gov

Managing Program Officer

Name: Dan R. Cosley

Email: dcosley@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/13/2022, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-512 Designing Accountable Software Systems.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.75
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$17,250
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	3.00
Other Professionals Calendar Months	12.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$80,000
Graduate Students	
Graduate Students Count	3.00
Graduate Students Amount	\$21,000
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0

Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$118,250
C. Fringe Benefits	\$25,629
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$143,879
D. Equipment	\$0
E. Travel	
Domestic	\$3,861
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
H. Total Direct Costs (A Through G)	\$147,740
I. Indirect Costs*	\$101,941
J. Total Direct and Indirect Costs (H + I)	\$249,681
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$249,681
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
DHHS 7/16/2021	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2217722

Managing Division Abbreviation: CCF

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 07/12/2022

Amendment Number: 000

Proposal Number: 2217722

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

AWARD INFORMATION

Award Number (FAIN): 2217722

Award Instrument: Standard Grant

Award Date: 07/12/2022

Award Period of Performance: Start Date: 09/01/2022 End Date: 08/31/2025

Project Title: Collaborative Research: DASS: Enabling Standards- and Disclosure-Based Regulations in and through Software Systems: Making Algorithmic Work Management Software Accountable to Law

Managing Division Abbreviation: CCF

Research and Development Award: Yes

Funding Opportunity: NSF 22-512 Designing Accountable Software Systems

Assistance Listing Number(s) and Name(s): 47.070 Computer and Information Science and Engineering, 47.075 Social, Behavioral, and Economic Sciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$250,000
Total Intended Award Amount: \$250,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$250,000
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED] **Email:** [REDACTED] **Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2217721	Y	[REDACTED]	University of Texas at Austin
2217722	N	[REDACTED]	Harvard College, President & Fellows of Harvard University
2217723	N	[REDACTED]	University of California, San Diego

NSF CONTACT INFORMATION

Managing Grants Official (Primary Contact)	Awarding Official	Managing Program Officer
Name: Daniel P McEnrue Email: dpmcenru@nsf.gov	Name: Daniel P McEnrue Email: dpmcenru@nsf.gov	Name: Reggie S Sheehan Email: rsheehan@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/13/2022, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement

which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-512 Designing Accountable Software Systems.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	4.27
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$118,065
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	

Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$118,065
C. Fringe Benefits	\$27,864
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$145,929
D. Equipment	\$0
E. Travel	
Domestic	\$2,000
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
H. Total Direct Costs (A Through G)	\$147,929
I. Indirect Costs*	\$102,071
J. Total Direct and Indirect Costs (H + I)	\$250,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$250,000
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
Modified Total Direct	69.0000%

Cost	
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These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2218427

Managing Division Abbreviation: BCS

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/05/2022

Amendment Number: 000

Proposal Number: 2218427

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 07/06/2022.

It is the grantee's responsibility to ensure that any human subjects work conducted under this award has an Institutional Review Board (IRB) approval, where required, and that such approval remains valid at all times that human subjects work is conducted under the award. Failure to comply with this condition will result in suspension and/or termination of the award.

Funds provided for participant support may not be diverted by the awardee to other categories of expense without the prior written approval of the cognizant NSF Program Officer. Since participant support cost is not a normal account classification, the awardee organization must be able to separately identify participant support costs. It is highly recommended that separate accounts, sub-accounts, sub-task, or sub-ledgers be established to accumulate these costs. The awardee should have written policies and procedures to segregate participant support costs.

Incentive payments or gifts to participants must be made in accordance with written institutional policies and procedures and supported by auditable documentation. The allowability of these costs will ultimately be based on the awardee institution's ability to adequately demonstrate that the incentives have been disbursed in accordance with its policies and procedures.

Costs of entertainment, amusement, diversion and social activities, and any costs directly associated with such activities (such as meals, lodging, rentals, transportation and gratuities) are unallowable.

When certain meals are an integral and necessary part of a conference or meeting (i.e., working meals where business is transacted), grant funds may be used for such meals. Grant funds may also be used to

furnish a reasonable amount of coffee or soft drinks for conference or meeting participants and attendees during coffee breaks.

No NSF funds may be spent on meals or coffee breaks for intramural meetings of an organization or any of its components, including, but not limited to, laboratories, departments and centers.

AWARD INFORMATION

Award Number (FAIN): 2218427

Award Instrument: Standard Grant

Award Date: 08/05/2022

Award Period of Performance: Start Date: 09/01/2022 End Date: 08/31/2025

Project Title: Identifying novel memory traces that improve action precision

Managing Division Abbreviation: BCS

Research and Development Award: Yes

Funding Opportunity: PD 09-7252 Perception, Action & Cognition

Assistance Listing Number(s) and Name(s): 47.075 Social, Behavioral, and Economic Sciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$633,223

Total Intended Award Amount: \$633,223

Total Approved Cost Share or Matching Amount: \$0

Total Amount Obligated to Date: \$633,223

Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator:

Email:

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official
(Primary Contact)

Name: Tyffani N. Smith

Email: tnsmith@nsf.gov

Awarding Official

Name: Willie M. Powell

Email: wpowell@nsf.gov

Managing Program Officer

Name: Betty K. Tuller

Email: btuller@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and

NSF Agency Specific Requirements, dated 05/13/2022, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	2.70
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$63,121
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	3.00
Post Doctoral Calendar Months	36.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$201,913
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00

Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$265,034
C. Fringe Benefits	\$58,572
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$323,606
D. Equipment	\$0
E. Travel	
Domestic	\$6,000
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$18,000
Participant Support Costs Travel	\$3,000
Participant Support Costs Subsistence	\$12,600
Participant Support Costs Other	\$0
Total Number of Participants	3.00
<i>Total Participant Costs (F)</i>	\$33,600
G. Other Direct Costs	
Materials Supplies	\$6,000
Publication Costs	\$3,000
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$16,200
<i>Total Other Direct Costs (G)</i>	\$25,200
H. Total Direct Costs (A Through G)	\$388,406
I. Indirect Costs*	\$244,817
J. Total Direct and Indirect Costs (H + I)	\$633,223
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$633,223
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost
-----------	---------------

	Rate
Indirect on Total Modified Direct Costs	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2218460

Managing Division Abbreviation: EAR

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/09/2022

Amendment Number: 000

Proposal Number: 2218460

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 07/10/2022.

AWARD INFORMATION

Award Number (FAIN): 2218460

Award Instrument: Standard Grant

Award Date: 08/09/2022

Award Period of Performance: Start Date: 08/15/2022 End Date: 07/31/2027

Project Title: Collaborative Research: The Lake Superior Basin: Natural Geomorphic Experiment, Deepwater-Terminating Ice Stream, and Isostatically Adjusting Rift

Managing Division Abbreviation: EAR

Research and Development Award: Yes

Funding Opportunity: NSF 20-509 Frontier Research in Earth Sciences

Assistance Listing Number(s) and Name(s): 47.050 Geosciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$217,224

Total Intended Award Amount: \$217,224
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$217,224
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED] **Email:** [REDACTED] **Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2218457	Y	[REDACTED]	University of Minnesota-Twin Cities
2218460	N		Harvard College, President & Fellows of Harvard University
2218462	N		Minnesota State University, Mankato
2218463	N		The University of Wisconsin - Madison
2218464	N		University of Wisconsin, Superior

NSF CONTACT INFORMATION

Managing Grants Official (Primary Contact)
Name: Angela A. Turner
Email: aturner@nsf.gov

Awarding Official
Name: Willie M. Powell
Email: wpowell@nsf.gov

Managing Program Officer
Name: Douglas Edward Kowalewski
Email: dkowalew@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/13/2022, available at

<https://www.nsf.gov/awards/managing/rte.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 20-509 Frontier Research in Earth Sciences.

BUDGET

A. Senior Personnel	
Senior Personnel Count	5.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	30.00
Graduate Students Amount	\$110,342
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	

Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$110,342
C. Fringe Benefits	\$0
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$110,342
D. Equipment	\$0
E. Travel	
Domestic	\$6,598
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$6,000
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$9,454
<i>Total Other Direct Costs (G)</i>	\$15,454
H. Total Direct Costs (A Through G)	\$132,394
I. Indirect Costs*	\$84,830
J. Total Direct and Indirect Costs (H + I)	\$217,224
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$217,224
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2218803

Managing Division Abbreviation: BCS

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 07/24/2022

Amendment Number: 000

Proposal Number: 2218803

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 06/24/2022.

No work with human subjects, including recruitment, may be conducted under this protocol or grant until IRB approval has been obtained.

AWARD INFORMATION

Award Number (FAIN): 2218803

Award Instrument: Standard Grant

Award Date: 07/24/2022

Award Period of Performance: Start Date: 09/01/2022 End Date: 08/31/2025

Project Title: HNDS-I: Bringing Differential Privacy to Social Science Data Repositories

Managing Division Abbreviation: BCS

Research and Development Award: Yes

Funding Opportunity: NSF 22-505 Human Networks and Data Science

Assistance Listing Number(s) and Name(s): 47.075 Social, Behavioral, and Economic Sciences,
47.049 Mathematical and Physical Sciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$860,000
Total Intended Award Amount: \$860,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$860,000
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

co-Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official

(Primary Contact)

Name: Tyffani N. Smith

Email: tsmith@nsf.gov

Awarding Official

Name: Willie M. Powell

Email: wpowell@nsf.gov

Managing Program Officer

Name: Patricia Van Zandt

Email: pvanzand@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/13/2022, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-505 Human Networks and Data Science.

BUDGET

A. Senior Personnel	
Senior Personnel Count	6.00
Senior Personnel Calendar Months	2.25
Senior Personnel Academic Months	0.00
Senior Personnel Summer	0.00

Months	
Senior Personnel Amount	\$73,603
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	15.00
Other Professionals Calendar Months	27.36
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$292,706
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$366,309
C. Fringe Benefits	\$124,567
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$490,876
D. Equipment	\$0
E. Travel	
Domestic	\$18,000
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs	\$0

Subsistence	
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
H. Total Direct Costs (A Through G)	\$508,876
I. Indirect Costs*	\$351,124
J. Total Direct and Indirect Costs (H + I)	\$860,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$860,000
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2218803

Managing Division Abbreviation: BCS

Amendment Number: 002

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Supplement

Amendment Date: 06/18/2024

Amendment Number: 002

Proposal Number: 2432128

Amendment Description:

The purpose of this amendment is to:

- Add supplemental support to the award in the amount shown below in the Funding Information section.
- Extend the end date from 08/31/2026 to 02/28/2027.

Funds provided by this award include support for "Research Experiences for Undergraduates" in accordance with the NSF program solicitation NSF 23-601.

Except as modified by this amendment, the award conditions remain unchanged.

AWARD INFORMATION

Award Number (FAIN): 2218803

Award Instrument: Standard Grant

Award Date: 07/24/2022

Award Period of Performance: Start Date: 09/01/2022 End Date: 02/28/2027

Project Title: HNDS-I: Bringing Differential Privacy to Social Science Data Repositories

Managing Division Abbreviation: BCS

Research and Development Award: Yes

Funding Opportunity: NSF 22-505 Human Networks and Data Science

Assistance Listing Number(s) and Name(s): 47.075 Social, Behavioral, and Economic Sciences (See

Amendment 000 for source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$10,000
Total Intended Award Amount: \$860,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$872,400

PROJECT PERSONNEL

Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

co-Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official

(Primary Contact)

Name: Tyffani N. Smith

Email: tnsmith@nsf.gov

Phone: (703) 292-7046

Awarding Official

Name: Tyffani N. Smith

Email: tnsmith@nsf.gov

Managing Program Officer

Name: Patricia Van Zandt

Email: pvanzand@nsf.gov

Phone: (703) 292-7437

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	2.00
Senior Personnel Calendar	0.00

Months	
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$0
C. Fringe Benefits	\$0
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$0
D. Equipment	\$0
E. Travel	
Domestic	\$0
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$7,000

Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$3,000
Total Number of Participants	1.00
<i>Total Participant Costs (F)</i>	\$10,000
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
H. Total Direct Costs (A Through G)	\$10,000
I. Indirect Costs*	\$0
J. Total Direct and Indirect Costs (H + I)	\$10,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$10,000
M. Cost Sharing Proposed Level	\$0

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2219069

Managing Division Abbreviation: EAR

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/10/2022

Amendment Number: 000

Proposal Number: 2219069

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

AWARD INFORMATION

Award Number (FAIN): 2219069

Award Instrument: Standard Grant

Award Date: 08/10/2022

Award Period of Performance: Start Date: 09/01/2022 End Date: 08/31/2025

Project Title: NSFGE0-NEEC: Collaborative Research: The first actinopterygian 'adaptive radiation': integrating fossils, function and phylogeny to illuminate innovation in a post-extinction world

Managing Division Abbreviation: EAR

Research and Development Award: Yes

Funding Opportunity: NSF 17-536 Sedimentary Geology and Paleobiology

Assistance Listing Number(s) and Name(s): 47.050 Geosciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$299,883

Total Intended Award Amount: \$299,883
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$299,883
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED] **Email:** [REDACTED] **Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2219007	Y	[REDACTED]	Regents of the University of Michigan
2218892	N	[REDACTED]	The University of Chicago
2219069	N	[REDACTED]	Harvard College, President & Fellows of Harvard University

NSF CONTACT INFORMATION

Managing Grants

Official (Primary Contact)
Name: Angela A. Turner
Email: aturner@nsf.gov

Awarding Official
Name: Angela A. Turner
Email: aturner@nsf.gov

Managing Program Officer
Name: Dena Michelle Smith-Nufio
Email: dmsmith@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/13/2022, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 17-536 Sedimentary

Geology and Paleobiology.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.75
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$9,519
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	2.00
Other Professionals Calendar Months	24.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$87,992
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$97,511
C. Fringe Benefits	\$51,346

<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$148,857
D. Equipment	\$0
E. Travel	
Domestic	\$4,490
International	\$3,290
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$14,108
Subawards	\$0
Other	\$6,700
<i>Total Other Direct Costs (G)</i>	\$20,808
H. Total Direct Costs (A Through G)	\$177,445
I. Indirect Costs*	\$122,438
J. Total Direct and Indirect Costs (H + I)	\$299,883
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$299,883
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2220446

Managing Division Abbreviation: OPP

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/26/2022

Amendment Number: 000

Proposal Number: 2220446

Amendment Description:

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above.

Please read the components carefully as they outline specific requirements for receiving this funding.

1. Projects receiving U.S. Antarctic Program (USAP) support for fieldwork in the Antarctic are subject to the Antarctic Conservation Act (ACA), as amended, 16 U.S.C. § 2401, et seq. Violations of the ACA may result in civil penalties up to approximately \$28,000 per occurrence, imprisonment for up to one year, and, where appropriate, administrative sanctions up to and including debarment. Please refer to <https://www.nsf.gov/geo/plr/antarct/aca/aca.jsp> for general guidance.

2. The Polar Code of Conduct alerts participants to the NSF's expectations for professional conduct and acceptable behavior while deployed in Antarctica

(https://www.nsf.gov/geo/opp/documents/policy/polar_coc.pdf). Participants in research supported by NSF are required to comply with this Code of Conduct. Participants are required to acknowledge receipt, acceptance and full understanding of the terms and expectations of the Polar Code of Conduct and to agree to abide by its terms and expectations. As noted in the Code, violations "may be shared with current and future Antarctic or Arctic program support contractors, federal agency partners, or grantee institutions" and "may result in adverse consequences to the individual, including, but not limited to, removal from a USAP or Arctic station, field camp, other facility, ship, or aircraft; termination of employment (by the employer); or other administrative, civil, or criminal enforcement actions, as appropriate." The Antarctic Program is committed to ensuring a safe and inclusive research environment free from harassment of any kind for all participants.

3. Principal investigators are required to comply with the OPP Data Management Policy (NSF 16-055) and evidence of compliance is required in final project reports. Upon receipt of their award, investigators must register their projects with the USAP-Data Center (USAP-DC) at <https://www.usap-dc.org/>. In all project reports submitted to NSF, principal investigators must address the status of storing metadata files, physical/biological samples, full data sets, and derived data products into long-lived and publicly accessible archive(s). Final reports must include an Antarctic Master Directory (AMD) metadata entry under the "Other Products" or "website" sections. Collaborative proposals can have a single AMD entry, but it must be referenced in each collaborative final report. As part of your registration, USAP-DC will create an AMD entry for this project.

4. You are expected to specifically address progress on activities related to your proposed Broader Impacts in annual and final reports.

5. As part of the Office of Polar Programs efforts to increase diversity and inclusion in the Antarctic please seek to recruit qualified students and others working on your project from historically underrepresented groups in STEM, e.g., women, minorities, persons with disabilities, LGBTQ+ students and veterans. Diversifying and broadening participation is a priority for the Antarctic Sciences Section.

6. Projects receiving USAP support for fieldwork in the Antarctic shall include the following acknowledgement in publications resulting from the project (in addition to acknowledging NSF grant support as described in the NSF Proposal & Award Policies & Procedures Guide Chapter XI.E.4): "Logistical support for this project in Antarctica was provided by the U.S. National Science Foundation through the U.S. Antarctic Program."

AWARD INFORMATION

Award Number (FAIN): 2220446

Award Instrument: Continuing Grant

Award Date: 08/26/2022

Award Period of Performance: Start Date: 09/01/2022 End Date: 08/31/2027

Project Title: Collaborative Research: Imaging the Beginning of Time from the South Pole: Completing the BICEP Array Survey

Managing Division Abbreviation: OPP

Research and Development Award: Yes

Funding Opportunity: NSF 21-567 Antarctic Research

Assistance Listing Number(s) and Name(s): 47.049 Mathematical and Physical Sciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$584,986

Total Intended Award Amount: \$2,085,318

Total Approved Cost Share or Matching Amount: \$0

Total Amount Obligated to Date: \$584,986

Expenditure Limitation: Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2023	\$361,619
2024	\$371,028
2025	\$378,159
2026	\$389,526

PROJECT PERSONNEL**Principal Investigator:****Email:****Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE**COLLABORATIVE INFORMATION**

Proposal ID	Lead	PI Name	Organization
2220444	Y		University of Minnesota-Twin Cities
2220445	N		California Institute of Technology
2220446	N		Harvard College, President & Fellows of Harvard University
2220447	N		University of Cincinnati
2220448	N		Stanford University

NSF CONTACT INFORMATION**Managing Grants****Official (Primary Contact)****Name:** Angela A. Turner**Email:** aturner@nsf.gov**Awarding Official****Name:** Willie M. Powell**Email:** wpowell@nsf.gov**Managing Program Officer****Name:** Vladimir O. Papitashvili**Email:** vpapita@nsf.gov**GENERAL TERMS AND CONDITIONS**

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended

(42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/13/2022, available at <https://www.nsf.gov/awards/managing/rte.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 21-567 Antarctic Research.

BUDGET

A. Senior Personnel	
Senior Personnel Count	2.00
Senior Personnel Calendar Months	11.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$96,059
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	1.00
Post Doctoral Calendar Months	12.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$74,112
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	2.00
Graduate Students Amount	\$73,823
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0

Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$243,994
C. Fringe Benefits	\$41,124
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$285,118
D. Equipment	\$50,000
E. Travel	
Domestic	\$9,246
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$1,500
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$34,976
<i>Total Other Direct Costs (G)</i>	\$36,476
H. Total Direct Costs (A Through G)	\$380,840
I. Indirect Costs*	\$204,146
J. Total Direct and Indirect Costs (H + I)	\$584,986
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$584,986
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
Total Direct Cost	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2220446

Managing Division Abbreviation: OPP

Amendment Number: 005

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Supplement

Amendment Date: 08/25/2024

Amendment Number: 005

Proposal Number: 2444674

Amendment Description:

The purpose of this amendment is to:

- Add supplemental support to the award in the amount shown below in the Funding Information section.

Except as modified by this amendment, the award conditions remain unchanged.

AWARD INFORMATION

Award Number (FAIN): 2220446

Award Instrument: Continuing Grant

Award Date: 08/26/2022

Award Period of Performance: Start Date: 09/01/2022 End Date: 08/31/2027

Project Title: Collaborative Research: Imaging the Beginning of Time from the South Pole:

Completing the BICEP Array Survey

Managing Division Abbreviation: OPP

Research and Development Award: Yes

Funding Opportunity: NSF 21-567 Antarctic Research

Assistance Listing Number(s) and Name(s): 47.078 Polar Programs (See Amendment 000 for source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$398,021
Total Intended Award Amount: \$2,085,318
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$2,530,198

PROJECT PERSONNEL**Principal Investigator:****Email:**

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION**Managing Grants Official**

(Primary Contact)

Name: Angela A. Turner**Email:** aturner@nsf.gov**Phone:** (703) 292-7524**Awarding Official****Name:** Willie M. Powell**Email:** wpowell@nsf.gov**Managing Program Officer****Name:** Vladimir O. Papitashvili**Email:** vpapita@nsf.gov**Phone:** (703) 292-7425**GENERAL TERMS AND CONDITIONS**

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	2.00
Senior Personnel Calendar Months	4.40
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$60,270
B. Other Personnel	

Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	1.00
Other Amount	\$15,804
<i>Total Salaries and Wages (A+B)</i>	\$76,074
C. Fringe Benefits	\$20,002
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$96,076
D. Equipment	\$166,300
E. Travel	
Domestic	\$10,800
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00

<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$30,237
<i>Total Other Direct Costs (G)</i>	\$30,237
H. Total Direct Costs (A Through G)	\$303,413
I. Indirect Costs*	\$94,608
J. Total Direct and Indirect Costs (H + I)	\$398,021
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$398,021
M. Cost Sharing Proposed Level	\$0

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2220703

Managing Division Abbreviation: DMR

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 06/29/2022

Amendment Number: 000

Proposal Number: 2220703

Amendment Description:

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above.

Fiscal Year 2022, 2023, and 2024 budgets have been combined in this award. It is still the grantee's responsibility to submit an annual project report in accordance with the award terms and conditions.

AWARD INFORMATION

Award Number (FAIN): 2220703

Award Instrument: Continuing Grant

Award Date: 06/29/2022

Award Period of Performance: Start Date: 08/01/2022 End Date: 07/31/2026

Project Title: Topological order and Anyons in and out of Equilibrium

Managing Division Abbreviation: DMR

Research and Development Award: Yes

Funding Opportunity: NSF 20-582 Condensed Matter and Materials Theory

Assistance Listing Number(s) and Name(s): 47.049 Mathematical and Physical Sciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$420,000
Total Intended Award Amount: \$560,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$420,000
Expenditure Limitation: Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2025	\$140,000

PROJECT PERSONNEL

Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization:

PRESIDENT AND
FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official

(Primary Contact)

Name: Elizabeth

Gebremedhin

Email: egebreme@nsf.gov

Awarding Official

Name: Elizabeth Gebremedhin

Email: egebreme@nsf.gov

**Managing Program
Officer**

Name: Serdar Ogut

Email: sogut@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/13/2022, available at <https://www.nsf.gov/awards/managing rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 20-582 Condensed Matter and Materials Theory.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	1.50

Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$43,548
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	3.00
Graduate Students Amount	\$131,963
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$175,511
C. Fringe Benefits	\$10,277
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$185,788
D. Equipment	\$0
E. Travel	
Domestic	\$8,943
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0

Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$7,500
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$70,368
<i>Total Other Direct Costs (G)</i>	\$77,868
H. Total Direct Costs (A Through G)	\$272,599
I. Indirect Costs*	\$147,401
J. Total Direct and Indirect Costs (H + I)	\$420,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$420,000
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2220747

Managing Division Abbreviation: IOS

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/10/2022

Amendment Number: 000

Proposal Number: 2220747

Amendment Description:

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above as modified by revised budget dated 07/13/2022.

Funds provided for participant support may not be diverted by the awardee to other categories of expense without the prior written approval of the cognizant NSF Program Officer. Since participant support cost is not a normal account classification, the awardee organization must be able to separately identify participant support costs. It is highly recommended that separate accounts, sub-accounts, sub-task, or sub-ledgers be established to accumulate these costs. The awardee should have written policies and procedures to segregate participant support costs.

AWARD INFORMATION

Award Number (FAIN): 2220747

Award Instrument: Continuing Grant

Award Date: 08/10/2022

Award Period of Performance: Start Date: 09/01/2022 End Date: 08/31/2026

Project Title: EDGE FGT: MUSH-IT: MUlti-Species Hemimetabolous Insect Tools

Managing Division Abbreviation: IOS

Research and Development Award: Yes

Funding Opportunity: NSF 21-546 Enabling Discovery through GENomics

Assistance Listing Number(s) and Name(s): 47.074 Biological Sciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$850,000
Total Intended Award Amount: \$1,700,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$850,000
Expenditure Limitation: Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2024	\$425,000
2025	\$425,000

PROJECT PERSONNEL

Principal Investigator:

Email:

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official
(Primary Contact)

Name: Christine Castell

Email: ccastell@nsf.gov

Awarding Official

Name: Vanessa L. Richardson

Email: vlrichar@nsf.gov

Managing Program Officer

Name: Theodore J. Morgan

Email: tmorgan@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/13/2022, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 21-546 Enabling Discovery through GENomics.

BUDGET

A. Senior Personnel	
Senior Personnel Count	2.00

Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	4.00
Post Doctoral Calendar Months	48.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$265,200
Other Professionals	
Other Professionals Count	2.00
Other Professionals Calendar Months	12.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$48,960
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$314,160
C. Fringe Benefits	\$71,943
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$386,103
D. Equipment	\$0
E. Travel	
Domestic	\$7,600
International	\$5,000
F. Participant Support Costs	

Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$24,001
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	12.00
<i>Total Participant Costs (F)</i>	\$24,001
G. Other Direct Costs	
Materials Supplies	\$37,002
Publication Costs	\$12,265
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$40,787
<i>Total Other Direct Costs (G)</i>	\$90,054
H. Total Direct Costs (A Through G)	\$512,758
I. Indirect Costs*	\$337,242
J. Total Direct and Indirect Costs (H + I)	\$850,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$850,000
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

From: tmorgan@nsf.gov
Reply-To: tmorgan@nsf.gov
To: [REDACTED]
CC: tmorgan@nsf.gov; DGERSEW@nsf.gov
Subject: NSF Approval of Continuing Grant Increment Award ID 2220747
Status: Sent on Tue 09/03/2024 09:00 AM

Notification of NSF Approval of Additional Funding Support

Award No. 2220747
Amendment No. 001
Division Identifier: IOS
Release Date: 09/03/2024
Released By: Theodore Morgan
Amount: \$425,000
Award End Date: 08/31/2026

As authorized by the original award, the National Science Foundation hereby releases \$425,000 for additional support of the award referenced above. The award, with this amendment, now totals \$1,275,000 and will end on 08/31/2026.

The attached budget indicates the amounts, by categories, on which NSF has based its continued support.

This award is subject to the terms and conditions referenced in the original award notice. The most current version of the terms and conditions can be accessed at: https://www.nsf.gov/awards/managing/award_conditions.jsp?org=NSF.

This award is subject to the Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards (Uniform Guidance). NSF's implementation of the Uniform Guidance is contained in the Grant Conditions referenced in this award.

Any technical or programmatic questions regarding this notification should be addressed to the cognizant NSF Program Officer: Theodore Morgan , tmorgan@nsf.gov, (703)292-7868.

Any award specific questions of an administrative or financial nature should be addressed to the grants official at <http://www.nsf.gov/bfa/dga/docs/liaison.pdf>. The cognizant grants official can be identified by associating the three-letter division identifier referenced above with the grants official for that division on the liaison website.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2221715

Managing Division Abbreviation: ECCS

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/23/2022

Amendment Number: 000

Proposal Number: 2221715

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

AWARD INFORMATION

Award Number (FAIN): 2221715

Award Instrument: Standard Grant

Award Date: 08/23/2022

Award Period of Performance: Start Date: 08/01/2022 End Date: 07/31/2025

Project Title: Mid-infrared reconfigurable pulse generators

Managing Division Abbreviation: ECCS

Research and Development Award: Yes

Funding Opportunity: PD 18-1517 Electronics, Photonics and Magnetic Devices

Assistance Listing Number(s) and Name(s): 47.041 Engineering Grants

FUNDING INFORMATION

Amount Obligated by this Amendment: \$360,000

Total Intended Award Amount: \$360,000

Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$360,000
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official

(Primary Contact)

Name: Khoren Claiborne

Email: kclaibor@nsf.gov

Awarding Official

Name: Willis Phan

Email: wiphan@nsf.gov

Managing Program Officer

Name: Dominique M. Dagenais

Email: ddagenai@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/13/2022, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.15
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$5,795
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00

Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	3.00
Graduate Students Amount	\$132,294
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$138,089
C. Fringe Benefits	\$1,367
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$139,456
D. Equipment	\$10,000
E. Travel	
Domestic	\$6,000
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$15,000

Publication Costs	\$4,500
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$65,112
<i>Total Other Direct Costs (G)</i>	\$84,612
H. Total Direct Costs (A Through G)	\$240,068
I. Indirect Costs*	\$119,932
J. Total Direct and Indirect Costs (H + I)	\$360,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$360,000
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.